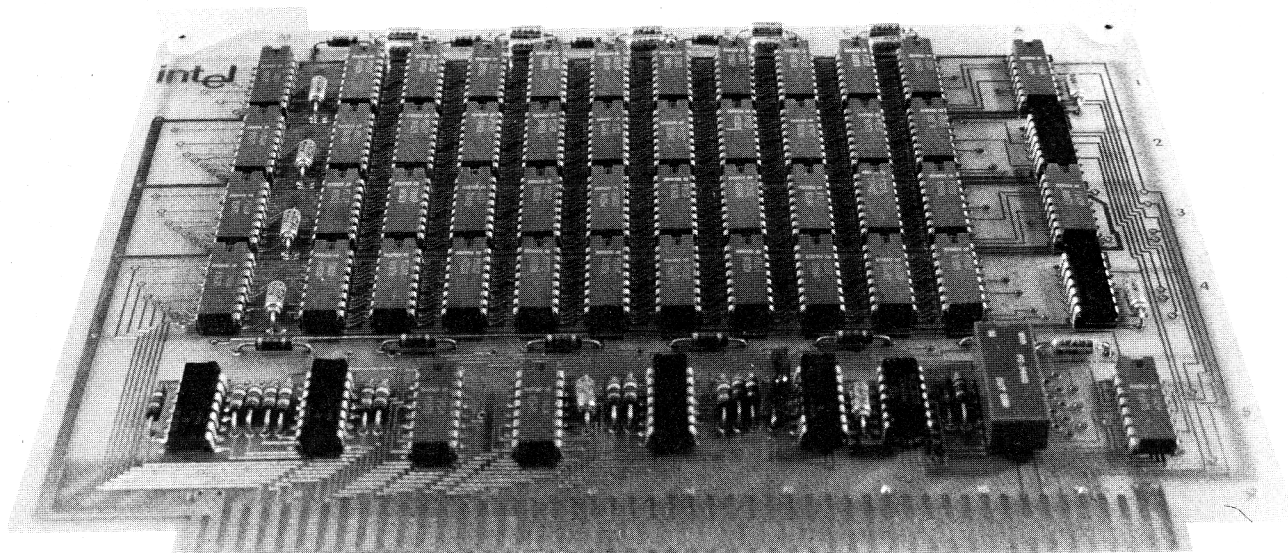


## in-50 MEMORY SYSTEM



### in-50 SERIES RAM MEMORY FEATURES:

- Low Cost Memory
- High Reliability
- Modular Expandability
- Module Interchangeability
- Fast Cycle Time
- Low Power Requirements
- Compact Size
- Field Expandable
- One Power Supply Voltage
- Fully Buffered System

The in-50 RAM Memory System is designed to meet the needs of control memory, disk controllers, scratch pad and signal processing applications. This memory provides high reliability and performance at low costs through the use of all solid state integrated circuits. The in-50 utilizes Bipolar technology to achieve these fast cycle and access times.

This memory system features a basic size of 1024 words by 10 bits per memory card. This memory system can be expanded to any word or bit length by the use of additional memory cards. This system includes all address and data registers.

**SYSTEM in-50 SPECIFICATIONS**
**Dimensions:**

Memory Board:	8.175 Inches High
(1K X 10)	6.0 Inches Deep
	0.5 Inches Wide

**Capacity:**

256, 512 and 1024 words per memory card.  
Larger sizes are capable by the addition of memory cards.

**Word Length:**

2, 4, 6, 7, 8, 9, 10 bits per card. Longer words can be accomplished by the use of additional memory cards.

**Cycle Time:**

in-50	100 Nanoseconds
in-52	150 Nanoseconds

**Access Time:**

in-50	100 Nanoseconds
in-52	150 Nanoseconds

**Operational Modes:**

Read (NDRO)	Write
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**Interface Characteristics:**

TTL Compatible

Standard Input Lines:

Cycle Request	Write Data
Read/Write	Address

Standard Output Lines:

Data Available	Read Data
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**Environment:**

Temperature:	0°C to +50°C operating ambient -40°C to +125°C non-operating
Relative Humidity:	Up to 90% with no condensation 0 to 10,000 feet operating
Altitude:	Up to 50,000 feet non-operating

**D.C. Power Requirement:**

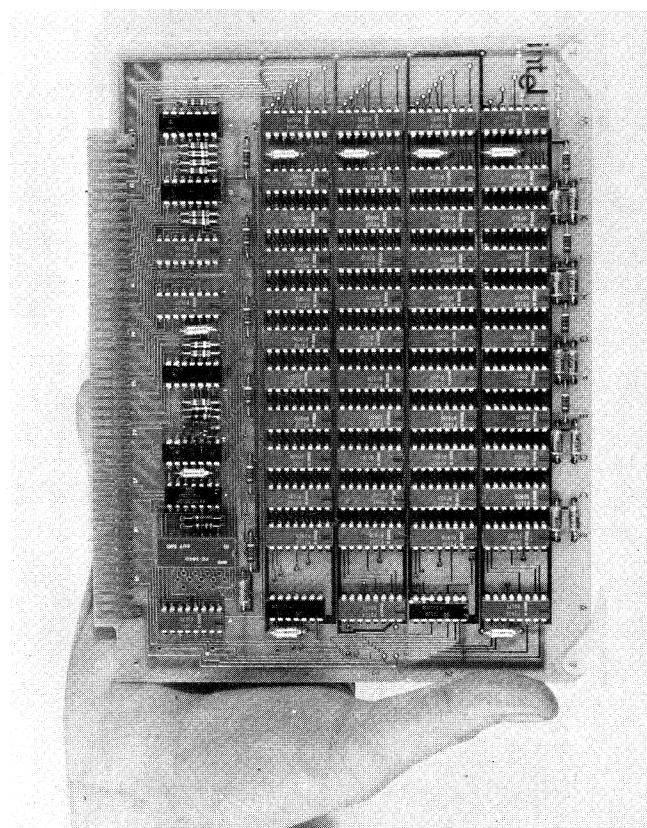
+5 Volts ±5%	5.5 Amps per memory card
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**Connector:**

100 Pin, 125 mil centers	1 per memory card
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**Features:**

Module Select	Open Collector Outputs
Address Registers	1 Power Supply Voltage
Data Registers	TTL Compatible
Single Board System	Ease of Expansion
Inputs and Outputs are Buffered	


**Special Features:**

The in-50 is available in various word and bit lengths with card chassis completely wire wrapped with I/O connectors for mounting in 19" relay racks.

The in-50 can also be supplied with a power supply that is also mountable in a 19" relay rack.

**Optional Features:**

The standard in-50 has open collector outputs with pull-up resistors on the board.